

Name \_\_\_\_\_



Date \_\_\_\_\_

## Logarithms

(Answer ID # 0838819)

**Determine the value of each of the following.**

1. $\log_7 343$	2. $\log_5 625$	3. $\log_2 64$
4. $\log_7 2401$	5. $\log_4 \left[ \frac{1}{4096} \right]$	6. $\log_8 2$
7. $\log_{(1/3)} 27$	8. $\log_8 512$	9. $\log_{(1/4)} \left[ \frac{1}{64} \right]$
10. $\log_{27} 9$	11. $\log_8 \left[ \frac{1}{64} \right]$	12. $\log_{16} 4$
13. $\log_{81} 3$	14. $\log_9 3$	15. $\log_{(1/3)} 9$
16. $\log_6 \left[ \frac{1}{216} \right]$	17. $\log_7 \left[ \frac{1}{343} \right]$	18. $\log_{(1/2)} 8$

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## Logarithms

(Answer ID # 0737239)

Solve for the unknown.

1. $\log_2 16 = m$	2. $\log_8 g = 2$	3. $\log_g 216 = 3$
4. $\log_6 t = 3$	5. $\log_4 \left[ \frac{1}{4096} \right] = a$	6. $\log_g 2 = \frac{1}{2}$
7. $\log_4 j = -6$	8. $\log_{16} 2 = b$	9. $\log_a 2 = \frac{1}{2}$
10. $\log_{(1/2)} 8 = q$	11. $\log_{(1/3)} l = 2$	12. $\log_f 64 = 3$
13. $\log_5 625 = u$	14. $\log_{(1/3)} f = -4$	15. $\log_f f = 4$
16. $\log_8 c = \frac{2}{3}$	17. $\log_u 2 = \frac{1}{2}$	18. $\log_3 \left[ \frac{1}{243} \right] = x$